JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 408 (1991)

AUTHOR INDEX

Akhnoukh, T., (408) 47
Albert, J., (408) 115
Arce, A.J., (408) C18
Artamkin, S.A., (408) 305
Atzkern, H., (408) 281

Bai, H., (408) 167
Bakalbassis, E.G., (408) 181
Ballestri, M., (408) C1
Barro, J., (408) 115
Baukov, Yu.I., (408) 305
Berke, H., (408) 203
Berthet, J.-C., (408) 335
Bitterwolf, T.E., (408) 137
Bochkarev, M.N., (408) 329
Bonati, F., (408) 125, 271
Bonrath, W., (408) C25
Bosch, H.W., (408) 203
Bott, S., (408) C13
Bovio, B., (408) 271
Broussier, R., (408) 381
Brown, S.S.D., (408) 439
Bruce, M.I., (408) 77
Burini, A., (408) 125, 271

Calogero, S., (408) 125
Chatgilialoglu, C., (408) C1
Chen, W., (408) 173
Choi, H.S., (408) 193
Clarke, M.P., (408) 149
Clayden, N.J., (408) 439
Colbran, S.B., (408) C33
Cowan, D.O., (408) 219, 227
Craig, D.C., (408) C33
Cramer, R.E., (408) 131

Davidson, I.M.T., (408) 149
Deeming, A.J., (408) C18
De Sanctis, Y., (408) C18
Dobson, C.M., (408) 439
Dornberger, E., (408) 61

Eguren, L., (408) 361
El Mjidi, M., (408) 381
Ephritikhine, M., (408) 335

Fischer, R.D., (408) 47
Forniés, J., (408) 425

Garbuzova, I.A., (408) 247
García, G., (408) 241
Garkusha, O.G., (408) 247
Gautheron, B., (408) 381
Geremia, S., (408) 95
Gilje, J.W., (408) 131
Görlitz, F.H., (408) 343
Gowik, P.K., (408) 343
Granell, J., (408) 115
Granifo, J., (408) 357
Grimley, A.E., (408) C33
Grössmann, U., (408) 203
Guldner, K., (408) C13

Haaland, A., (408) 35
Hammel, A., (408) 35
Han, I.S., (408) 193
Harris, R.K., (408) 167
Harrison, W.M., (408) C33
Heil, B., (408) 297
Hiermeier, J., (408) 281
Housecroft, C.E., (408) 7
Hund, H.-U., (408) 203

Jain, V.K., (408) 157
Jin, Z., (408) 173
Johnson, B.F.G., (408) C9, C13

Kanellakopulos, B., (408) 61
Kesavadas, T., (408) 157
Khramenko, V.V., (408) 329
Kim, J.H., (408) 193
Kim, S.J., (408) 193
Klapötke, T.M., (408) 343
Klingebiel, U., (408) 19
Köhler, F.H., (408) 281
Kollár, L., (408) 297
Koutsantonis, G.A., (408) 77
Kreißl, F.R., (408) C5
Kudinov, A.R., (408) 247

Lance, M., (408) 335
Lasocki, Z., (408) 27
Lee, C.H., (408) 193
Le Maréchal, J.-F., (408) 335
Lewis, J., (408) C9, C13
Li, X.-F., (408) 47
Lin, G., (408) 173
Lokshin, B.V., (408) 247
López, G., (408) 241
Lo Sterzo, C., (408) 253
Lott, K.A., (408) 137
Loumrhari, H., (408) 233

Macharashvili, A.A., (408) 305
Manzur, J., (408) C18
Maréchal, J.-F. Le, (408) 335
Mari, M., (408) 95
Martinez, F., (408) 425
Massey, A.D., (408) C13
Meier, R., (408) 343
Meyer, M., (408) 19
Morrison, E.C., (408) 105
Mozzchukhin, A.O., (408) 305
Müller, J., (408) 47

Nahar, S.K., (408) 261
Navarro, R., (408) 425
Nierlich, M., (408) 335
Nilsson, M., (408) 261
Nuber, B., (408) 61
Nur, H.P., (408) 261

O'Connor Salazar, D.C., (408) 219, 227
Olmstead, M.M., (408) 1
Olsson, T., (408) 261

Park, Y.K., (408) 193
Pestunovich, S.V., (408) 305
Pieper, U., (408) 19
Pietroni, B.R., (408) 125, 271
Pombeiro, A.J.L., (408) 181
Pörschke, K.R., (408) C25
Powell, N.I., (408) C18
Power, P.P., (408) 1

Qiao, K., (408) 47

Rad'kov, Yu.F., (408) 329
Rahman, M.T., (408) 261
Raithby, P.R., (408) C9
Randaccio, L., (408) 95
Raptis, K., (408) 61
Reischmann, R., (408) 35
Rest, A.J., (408) 137
Reuter, H., (408) 167
Rheingold, A.L., (408) 7
Richmann, P.N., (408) 131
Romero, I., (408) 241
Ros, J., (408) 233
Rybinskaya, M.I., (408) 247

Salter, I.D., (408) 439
Salzer, A., (408) 403
Sánchez, G., (408) 241
Sanctis, Y. De, (408) C18
Santana, M.D., (408) 241
Schmalle, H., (408) 203, 403
Schröder, W., (408) C25
Schumann, H., (408) 361
Schütt, W., (408) C5
Seconi, G., (408) C1
Sergeev, V.N., (408) 305
Shipov, A.G., (408) 305
Shklover, V.E., (408) 305
Shongwe, M.S., (408) 7
Sicilia, V., (408) 425
Skoda-Földes, R., (408) 297
Smith, D.J., (408) 439
Solano, I., (408) 241
Stalke, D., (408) 19
Stauber, R., (408) 403
Steck, A., (408) 281
Steel, P.J., (408) 395
Streiff, S., (408) 403
Struchkov, Yu.T., (408) 305, 329

Tiekink, E.R.T., (408) 77, 157, 323
Tocher, D.A., (408) 105
Torregiani, E., (408) 125
Torres, M.R., (408) 233
Tsipis, C.A., (408) 181

Ullrich, N., (408) C5

Vargas, M.E., (408) 357
Vatsa, C., (408) 157
Vigner, J., (408) 335
Volden, H.V., (408) 35

Wagner, F.E., (408) 125
Wang, D., (408) 343
Weidlein, J., (408) 35
Welch, A.J., (408) 425
Welzen, J. v., (408) 343
Wilkinson, D.A., (408) C9
Witekowa, M., (408) 27

Xia, J., (408) 173

Yáñez, R., (408) 233

Zakharov, L.N., (408) 329
Zanello, P., (408) 7
Zangrando, E., (408) 95
Ziegler, M.L., (408) 61
Ziller, J.W., (408) 361

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 408 (1991)

SUBJECT INDEX

Antimony

Cyclopentadienyliron arene cations, photochemical arene substitution in; synthesis of cyclopentadienyliron bisphosphine ligand complexes with group 14 and 15 ligands (H. Schumann, L. Eguren, J.W. Ziller), (408) 361

Arsenic

Cyclopentadienyliron arene cations, photochemical arene substitution in; synthesis of cyclopentadienyliron bisphosphine ligand complexes with group 14 and 15 ligands (H. Schumann, L. Eguren, J.W. Ziller), (408) 361

Boron

Borido cluster $Fe_4(CO)_{12}BHAu_2\{AsPh_3\}_2$, synthesis and molecular structure of; investigation of the electrochemistry of $Fe_4(CO)_{12}BHAu_2L_2$, L = $AsPh_3$ or PPh_3 (C.E. Housecroft, M.S. Shongwe, A.L. Rheingold, P. Zanello), (408) 7

Chromium

$[(\eta^5\text{-}C_5H_5)(CO)_3M(HgX)]$ (M = Cr, Mo, W; X = Cl, Br, I, N_3, SCN) complexes, interaction with $M'(CO)_3$(bipy) (M' = Mo, W) fragments; trimetallic compounds containing M–Hg–M'–X arrays (J. Granifo, M.E. Vargas), (408) 357

$M^+[M'M''(CO)_9L]^-$ ($M^+ = Na^+$, PPN^+; M' = Cr, W; M'' = Mn, Re; L = CO, PR_3), kinetic studies of the cleavage of (Y.K. Park, S.J. Kim, J.H. Kim, I.S. Han, C.H. Lee, H.S. Choi), (408) 193

Cobalt

Co–C bond lengths in vitamin B_{12} model compounds, evidence of steric influences on (S. Geremia, M. Mari, L. Randaccio, E. Zangrando), (408) 95

$[\{Co_2(CO)_6PhC_2\}_2]$ acetylene-linked dimeric cluster, synthesis and structural characterisation of (B.F.G. Johnson, J. Lewis, P.R. Raithby, D.A. Wilkinson), (408) C9

Iron, cobalt and rhodium complexes of the optically active diolefin (+)-nopadiene and its derivatives; crystal structure of C_5Me_5Rh(nopadiene) (A. Salzer, H. Schmalle, R. Stauber, S. Streiff), (408) 403

Copper

Group IB metal heteronuclear cluster compounds in the solid state, high-resolution $^{31}P\text{-}\{^1H\}$ nuclear magnetic resonance studies of (S.S.D. Brown, I.D. Salter, D.J. Smith, N.J. Clayden, C.M. Dobson), (408) 439

Phenylcoppermagnesium and methylcoppermagnesium reagents, ^1H and ^{13}C NMR spectra of (S.K. Nahar, H.P. Nur, M.T. Rahman, M. Nilsson, T. Olsson), (408) 261

Erbium

Triindenyllanthanide complexes $(\eta^5\text{-}C_9H_7)_3Ln\cdot OC_4H_8$ (Ln = Nd, Gd, Er), syntheses and crystal structures of (J. Xia, Z. Jin, G. Lin, W. Chen), (408) 173

Gadolinium

Triindenyllanthanide complexes (η^5-$C_9H_7)_3Ln\cdot OC_4H_8$ (Ln = Nd, Gd, Er), syntheses and crystal structures of (J. Xia, Z. Jin, G. Lin, W. Chen), (408) 173

Germanium

Bis(trimethylsilyl)- and bis(trimethylgermyl)carbodiimide, electron diffraction study of the gas-phase structure of (A. Hammel, H.V. Volden, A. Haaland, J. Weidlein, R. Reischmann), (408) 35

(O–Ge)-chelate 1-(dimethylchlorogermylmethyl)pyrrolidone-2, 1-(dimethylchlorogermylmethyl)piperidone-2, (N–Ge)-chelate *O*-(dimethylchlorogermylmethyl)-δ-valeroactim and 2-(chlorodimethylgermylmethylthio)pyrrolidine-1, crystal and molecular structures of; structural correlations between derivatives of four- and five-coordinated germanium (A.O. Mozzchukhin, A.A. Macharashvili, V.E. Shklover, Yu.T. Struchkov, A.G. Shipov, V.N. Sergeev, S.A. Artamkin, S.V. Pestunovich, Yu.I. Baukov), (408) 305

Gold

Borido cluster $Fe_4(CO)_{12}BHAu_2\{AsPh_3\}_2$, synthesis and molecular structure of; investigation of the electrochemistry of $Fe_4(CO)_{12}BHAu_2L_2$, L = $AsPh_3$ or PPh_3 (C.E. Housecroft, M.S. Shongwe, A.L. Rheingold, P. Zanello), (408) 7

[$\{Co_2(CO)_6PhC_2\}_2$] acetylene-linked dimeric cluster, synthesis and structural characterisation of (B.F.G. Johnson, J. Lewis, P.R. Raithby, D.A. Wilkinson), (408) C9

Group IB metal heteronuclear cluster compounds in the solid state, high-resolution ^{31}P-$\{^1H\}$ nuclear magnetic resonance studies of (S.S.D. Brown, I.D. Salter, D.J. Smith, N.J. Clayden, C.M. Dobson), (408) 439

Reactions of some Fe–Ir clusters; crystal structures of $Fe_2Ir(\mu\text{-}H)(\mu_3\text{-}CCHPh)(CO)_8(PPh_3)$ and $Au_2Fe_2Ir(\mu_4\text{-}C_2Ph)(CO)_7(PPh_3)_3$ (M.I. Bruce, G.A. Koutsantonis, E.R.T. Tiekink), (408) 77

R_3PAu^I C-, S-, and N-derivatives, gold-197 Mössbauer investigation of (F. Bonati, A. Burini, B.R. Pietroni, E. Torregiani, S. Calogero, F.E. Wagner), (408) 125

Symmetric *C*-imidazolylgold(I), reactions leading to Au^I carbene complexes or mixed valence or Au^{III} imidazolyl derivatives; crystal structure of [1-benzyl-3-(carboethoxy)imidazolin-2-yliden]chlorogold(I) (F. Bonati, A. Burini, B.R. Pietroni, B. Bovio), (408) 271

Iridium

Reactions of some Fe–Ir clusters; crystal structures of $Fe_2Ir(\mu\text{-}H)(\mu_3\text{-}CCHPh)(CO)_8(PPh_3)$ and $Au_2Fe_2Ir(\mu_4\text{-}C_2Ph)(CO)_7(PPh_3)_3$ (M.I. Bruce, G.A. Koutsantonis, E.R.T. Tiekink), (408) 77

Iron

Borido cluster $Fe_4(CO)_{12}BHAu_2\{AsPh_3\}_2$, synthesis and molecular structure of; investigation of the electrochemistry of $Fe_4(CO)_{12}BHAu_2L_2$, L = $AsPh_3$ or PPh_3 (C.E. Housecroft, M.S. Shongwe, A.L. Rheingold, P. Zanello), (408) 7

Cyclopentadienyliron arene cations, photochemical arene substitution in; synthesis of cyclopentadienyliron bisphosphine ligand complexes with group 14 and 15 ligands (H. Schumann, L. Eguren, J.W. Ziller), (408) 361

Dicarbonylbis(phosphorus-donor)iron complexes, trimerisation of methyl propiolate on (U. Grössmann, H.-U. Hund, H.W. Bosch, H. Schmalle, H. Berke), (408) 203

Diferrocenylketones, new synthesis of (D.C. O'Connor Salazar, D.O. Cowan), (408) 219

Diferrocenylsulfide, new synthesis and study of (D.C. O'Connor Salazar, D.O. Cowan), (408) 227

Heterodichalcogene ferrocenes with open or bridging chains, synthesis by addition of $Fe(C_5H_4ELi)_2\cdot 2THF$ (E = S, Se) to propynoates (R. Broussier, M. El Mjidi, B. Gautheron), (408) 381

Iron, cobalt and rhodium complexes of the optically active diolefin (+)-nopadiene and its derivatives; crystal structure of C_5Me_5Rh(nopadiene) (A. Salzer, H. Schmalle, R. Stauber, S. Streiff), (408) 403

Iron(II), tungsten(II) and molybdenum(II) (η^5-iodocyclopentadienyl)metallo methyl derivatives, methyl–iodine exchange in the presence of palladium (C. Lo Sterzo) (408) 253

Reactions of some Fe–Ir clusters; crystal structures of $Fe_2Ir(\mu\text{-}H)(\mu_3\text{-}CCHPh)(CO)_8(PPh_3)$ and $Au_2Fe_2Ir(\mu_4\text{-}C_2Ph)(CO)_7(PPh_3)_3$ (M.I. Bruce, G.A. Koutsantonis, E.R.T. Tiekink), (408) 77

Silyl-bridged di- to tetranuclear ferrocenes; synthesis, cyclic voltammetry and oxidation of (H. Atzkern, J. Hiermeier, F.H. Köhler, A. Steck), (408) 281

Lithium

[$Li(Et_2O)_2$-2,4,6-$Ph_3C_6H_2$] monomeric, σ-bonded aryllithium etherate complex, isolation and X-ray crystal structure of (M.M. Olmstead, P.P. Power), (408) 1

Magnesium

Pentamethylcyclopentadienyl Grignard reagent, [$Cp^*Mg(thf)\mu$-$Cl]_2$, crystal and molecular structure of (R.E. Cramer, P.N. Richmann, J.W. Gilje), (408) 131

Phenylcoppermagnesium and methylcoppermagnesium reagents, ^1H and ^{13}C NMR spectra of (S.K. Nahar, H.P. Nur, M.T. Rahman, M. Nilsson, T. Olsson), (408) 261

Manganese

$M^+[M'M''(CO)_9L]^-$ ($M^+ = Na^+$, PPN^+; $M' = Cr$, W; $M'' = Mn$, Re; $L = CO$, PR_3), kinetic studies of the cleavage of (Y.K. Park, S.J. Kim, J.H. Kim, I.S. Han, C.H. Lee, H.S. Choi), (408) 193

Tetrahydrofurfurylcyclopentadiene and its thallium, manganese, and rhodium complexes, synthesis of; low temperature matrix photolysis of the manganese complex (T.E. Bitterwolf, K.A. Lott, A.J. Rest), (408) 137

Mercury

[(η^5-C_5H_5)$(CO)_3M(HgX)$] ($M = Cr$, Mo, W; $X = Cl$, Br, I, N_3, SCN) complexes, interaction with $M'(CO)_3$(bipy) ($M' = Mo$, W) fragments; trimetallic compounds containing M–Hg–M′–X arrays (J. Granifo, M.E. Vargas), (408) 357

[$\{Co_2(CO)_6PhC_2\}_2$] acetylene-linked dimeric cluster, synthesis and structural characterisation of (B.F.G. Johnson, J. Lewis, P.R. Raithby, D.A. Wilkinson), (408) C9

Metallocenes

$Cp_2VCl(AsF_6)$ and other vanadocene(IV) hexafluoropnicogenate species, synthesis and EPR spectroscopic characterisation of; HF-catalysed oxidation to cationic vanadocenium(V) complexes; structure of $[Cp_2VCl_2]^+[AsF_6]^-$ (F.H. Görlitz, P.K. Gowik, T.M. Klapötke, D. Wang, R. Meier, J. v. Welzen), (408) 343

Diferrocenylketones, new synthesis of (D.C. O'Connor Salazar, D.O. Cowan), (408) 219

Diferrocenylsulfide, new synthesis and study of (D.C. O'Connor Salazar, D.O. Cowan), (408) 227

Heterodichalcogene ferrocenes with open or bridging chains, synthesis by addition of $Fe(C_5H_4ELi)_2 \cdot 2THF$ ($E = S$, Se) to propynoates (R. Broussier, M. El Mjidi, B. Gautheron), (408) 381

Silyl-bridged di- to tetranuclear ferrocenes; synthesis, cyclic voltammetry and oxidation of (H. Atzkern, J. Hiermeier, F.H. Köhler, A. Steck), (408) 281

Molybdenum

[(η^5-C_5H_5)$(CO)_3M(HgX)$] ($M = Cr$, Mo, W; $X = Cl$, Br, I, N_3, SCN) complexes, interaction with $M'(CO)_3$(bipy) ($M' = Mo$, W) fragments; trimetallic compounds containing M–Hg–M′–X arrays (J. Granifo, M.E. Vargas), (408) 357

Diisocyanide complexes *trans*-[$Mo(CNR)_2(Ph_2PCH_2CH_2PPh_2)_2$] and derived aminocarbyne compounds, molecular orbital study of the bonding and reactivity of (E.G. Bakalbassis, C.A. Tsipis, A.J.L. Pombeiro), (408) 181

Iron(II), tungsten(II) and molybdenum(II) (η^5-iodocyclopentadienyl)metallo methyl derivatives, methyl–iodine exchange in the presence of palladium (C. Lo Sterzo) (408) 253

Neodymium

Triindenyllanthanide complexes (η^5-$C_9H_7)_3Ln \cdot OC_4H_8$ (Ln = Nd, Gd, Er), syntheses and crystal structures of (J. Xia, Z. Jin, G. Lin, W. Chen), (408) 173

Nickel

Infrared spectra of triple-decker sandwich complexes $(Ni_2Cp_3)A$ ($A = BF_4$, PF_6) (I.A. Garbuzova, O.G. Garkusha, B.V. Lokshin, A.R. Kudinov, M.I. Rybinskaya), (408) 247

(2,6-$^i Pr_2$Ph-dad)Ni(C_2F_4), synthesis and reactivity of (W. Schröder, W. Bonrath, K.R. Pörschke), (408) C25

Osmium

Phenylphosphole, oxidative addition of; X-ray crystal structures of two ring-opened products [$Os_3(\mu_3$-$PhPC_4H_4)(CO)_x$] where $x = 8$ or 9 (A.J. Arce, Y. De Sanctis, J. Manzur, A.J. Deeming, N.I. Powell), (408) C18

Triosmium clusters with μ_3-AsR group as a building block for hexaosmium-arsenic cluster synthesis; synthesis and characterisation of [$(CO)_{11}Os_3As(Os_3(CO)_9H_3)$] and [$(CO)_9H_3Os_3As(Os_3(CO)_9H_3)$]; crystal structure of [$(CO)_{11}Os_3As(Os_3(CO)_9H_3)$] (K. Guldner, B.F.G. Johnson, J. Lewis, A.D. Massey, S. Bott), (408) C13

Palladium

Iron(II), tungsten(II) and molybdenum(II) (η^5-iodocyclopentadienyl)metallo methyl derivatives, methyl–iodine exchange in the presence of palladium (C. Lo Sterzo) (408) 253

Palladium(0) compounds, oxidative addition of aryl–halogen bonds of *N*-benzylidenbenzylamines to (J. Albert, J. Barro, J. Granell), (408) 115

[$Pd(\widehat{C\ N})(C_6F_5)(NCMe)$] ($\widehat{C\ N}$ = dimethylbenzylamine-C^2,N; 8-quinolylmethyl-C,N), synthesis and reactivity of; crystal structure of $(NBu_4)[\{Pd(8\text{-quinolylmethyl-}C,N)(C_6F_5)\}_2(\mu\text{-Cl})]$ (J. Forniés, R. Navarro, V. Sicilia, F. Martinez, A.J. Welch), (408) 425

Phosphorus

Cyclopentadienyliron arene cations, photochemical arene substitution in; synthesis of cyclopentadienyliron bisphosphine ligand complexes with group 14 and 15 ligands (H. Schumann, L. Eguren, J.W. Ziller), (408) 361

Dicarbonylbis(phosphorus-donor)iron complexes, trimerisation of methyl propiolate on (U. Grössmann, H.-U. Hund, H.W. Bosch, H. Schmalle, H. Berke), (408) 203

Phenylphosphole, oxidative addition of; X-ray crystal structures of two ring-opened products [$Os_3(\mu_3$-$PhPC_4H_4)(CO)_x$] where $x = 8$ or 9 (A.J. Arce, Y. De Sanctis, J. Manzur, A.J. Deeming, N.I. Powell), (408) C18

Reactions of some Fe–Ir clusters; crystal structures of $Fe_2Ir(\mu\text{-H})(\mu_3\text{-CCHPh})(CO)_8(PPh_3)$ and $Au_2Fe_2Ir(\mu_4\text{-}C_2Ph)(CO)_7(PPh_3)_3$ (M.I. Bruce, G.A. Koutsantonis, E.R.T. Tiekink), (408) 77

Trimethylphosphine-substituted η^2-thiocarbene complexes of tungsten, preparation and reactions of (W. Schütt, N. Ullrich, F.R. Kreißl), (408) C5

Platinum

Hydrosilylation of the C=C double bond employing homogeneous catalysis with transition metals (R. Skoda-Földes, L. Kollár, B. Heil), (408) 297

Rhenium

$LTc(CO)_3$ compounds (L = C_5Me_5, C_5Me_4Et, C_9H_7), preparation and characterisation of; crystal structures of $(\eta^5\text{-}C_5Me_5)M(CO)_3$ (M = Tc, Re), $(\eta^5\text{-}C_5Me_4Et)Tc(CO)_3$ and $(\eta^5\text{-}C_9H_7)Tc(CO)_3$ (K. Raptis, E. Dornberger, B. Kanellakopulos, B. Nuber, M.L. Ziegler), (408) 61

$M^+[M'M''(CO)_9L]^-$ ($M^+ = Na^+$, PPN^+; $M' = Cr$, W; $M'' = Mn$, Re; L = CO, PR_3), kinetic studies of the cleavage of (Y.K. Park, S.J. Kim, J.H. Kim, I.S. Han, C.H. Lee, H.S. Choi), (408) 193

Rhodium

[$\{(\eta^5\text{-}C_5Me_5)RhCl(\mu\text{-Cl})\}_2$], reactivity towards some potentially bidentate ligands (G. García, G. Sánchez, I. Romero, I. Solano, M.D. Santana, G. López), (408) 241

Dirhodium(II) compound with bridging orthometallated dimethylphenylphosphine ligands, synthesis and characterisation of (E.C. Morrison, D.A. Tocher), (408) 105

Hydrosilylation of the C=C double bond employing homogeneous catalysis with transition metals (R. Skoda-Földes, L. Kollár, B. Heil), (408) 297

Iron, cobalt and rhodium complexes of the optically active diolefin (+)-nopadiene and its derivatives; crystal structure of C_5Me_5Rh(nopadiene) (A. Salzer, H. Schmalle, R. Stauber, S. Streiff), (408) 403

Rhodium trichloride, cyclometallation with 1-phenylpyrazole; X-ray crystal structure of the resulting product (P.J. Steel), (408) 395

Tetrahydrofurfurylcyclopentadiene and its thallium, manganese, and rhodium complexes, synthesis of; low temperature matrix photolysis of the manganese complex (T.E. Bitterwolf, K.A. Lott, A.J. Rest), (408) 137

Ruthenium

1-*para*-Benzoquinonyl-2,3,4,5-tetraphenylcyclopentadienyl ruthenium(II) carbonyl complexes, preparation of (S.B. Colbran, D.C. Craig, W.M. Harrison, A.E. Grimley), (408) C33

Ruthenium(II)–alkenyl bonds, formation of alkenedithiocarboxylate and alkenecarboxylate ligands by insertion of CS_2 and CO_2 into (H. Loumrhari, J. Ros, R. Yáñez, M.R. Torres), (408) 233

Silicon

Bis(trimethylsilyl)- and bis(trimethylgermyl)carbodiimide, electron diffraction study of the gas-phase structure of (A. Hammel, H.V. Volden, A. Haaland, J. Weidlein, R. Reischmann), (408) 35

Eight-membered cyclôsilazoxanes, rate studies of the acid-catalysed solvolysis of (Z. Lasocki, M. Witekowa), (408) 27

Hydrosilylation of the C=C double bond employing homogeneous catalysis with transition metals (R. Skoda-Földes, L. Kollár, B. Heil), (408) 297

Lithiumbis(di-tert-butylfluorosilyl)phosphide, a cyclic zwitterion; synthesis and X-ray structure of (U. Klingebiel, M. Meyer, U. Pieper, D. Stalke), (408) 19

$[(Me_3SiC_5H_4)_3U]_2[\mu\text{-O}]$ oxo-bridged bimetallic organouranium complex, synthesis and crystal structure of (J.-C. Berthet, J.-F. Le Maréchal, M. Nierlich, M. Lance, J. Vigner, M. Ephritikhine), (408) 335

$(Me_3Si)_3SiSH$, a new radical-based reducing agent (M. Ballestri, C. Chatgilialoglu, G. Seconi), (408) C1

Metal-bridging versus chelating $Me_2Si(C_5H_4)_2$-ligands in binuclear complexes; crystal structures of non-sublimed $[Me_2Si(C_5H_4)_2Yb(\mu\text{-Br})]_2$ and $[(C_5H_5)_2Yb(\mu\text{-Cl})]_2$ (T. Akhnoukh, J. Müller, K. Qiao, X.-F. Li, R.D. Fischer), (408) 47

Silyl-bridged di- to tetranuclear ferrocenes; synthesis, cyclic voltammetry and oxidation of (H. Atzkern, J. Hiermeier, F.H. Köhler, A. Steck), (408) 281

Silylenes, their role in the direct synthesis of methylchlorosilanes (M.P. Clarke, I.M.T. Davidson), (408) 149

Silver

$[\{Co_2(CO)_6PhC_2\}_2]$ acetylene-linked dimeric cluster, synthesis and structural characterisation of (B.F.G. Johnson, J. Lewis, P.R. Raithby, D.A. Wilkinson), (408) C9

Group IB metal heteronuclear cluster compounds in the solid state, high-resolution $^{31}P\text{-}\{^1H\}$ nuclear magnetic resonance studies of (S.S.D. Brown, I.D. Salter, D.J. Smith, N.J. Clayden, C.M. Dobson), (408) 439

Technetium

$LTc(CO)_3$ compounds ($L = C_5Me_5$, C_5Me_4Et, C_9H_7), preparation and characterisation of; crystal structures of $(\eta^5\text{-}C_5Me_5)M(CO)_3$ ($M = Tc$, Re), $(\eta^5\text{-}C_5Me_4Et)Tc(CO)_3$ and $(\eta^5\text{-}C_9H_7)Tc(CO)_3$ (K. Raptis, E. Dornberger, B. Kanellakopulos, B. Nuber, M.L. Ziegler), (408) 61

Thallium

Tetrahydrofurfurylcyclopentadiene and its thallium, manganese, and rhodium complexes, synthesis of; low temperature matrix photolysis of the manganese complex (T.E. Bitterwolf, K.A. Lott, A.J. Rest), (408) 137

Tin

Dimethyltin dibenzoate, X-ray crystal structure of (E.R.T. Tiekink), (408) 323

$(Ph_3Sn)_2Yb(THF)_4$, a compound with an ytterbium–tin bond; synthesis and structure of (M.N. Bochkarev, V.V. Khramenkov, Yu.F. Rad'kov, L.N. Zakharov, Yu.T. Struchkov), (408) 329

$\{[R_2Sn(O_2C^tBu)]_2O\}_2$ ($R = Me$, Et, ^{n}Pr and ^{n}Bu), synthesis and characterisation of; X-ray crystal structures of $\{[R_2Sn(O_2C^tBu)]_2O\}_2$ ($R = Me$, Et) (C. Vatsa, V.K. Jain, T. Kesavadas, E.R.T. Tiekink) (408) 157

Triorganyltin fluorides, solid-state ^{119}Sn NMR studies of coordination in (H. Bai, R.K. Harris, H. Reuter), (408) 167

Tungsten

$[(\eta^5\text{-}C_5H_5)(CO)_3M(HgX)]$ (M = Cr, Mo, W; X = Cl, Br, I, N_3, SCN) complexes, interaction with $M'(CO)_3$(bipy) (M′ = Mo, W) fragments; trimetallic compounds containing M–Hg–M′–X arrays (J. Granifo, M.E. Vargas), (408) 357

Iron(II), tungsten(II) and molybdenum(II) (η^5-iodocyclopentadienyl)metallo methyl derivatives, methyl–iodine exchange in the presence of palladium (C. Lo Sterzo) (408) 253

$M^+[M'M''(CO)_9L]^-$ ($M^+ = Na^+$, PPN^+; M′ = Cr, W; M″ = Mn, Re; L = CO, PR_3), kinetic studies of the cleavage of (Y.K. Park, S.J. Kim, J.H. Kim, I.S. Han, C.H. Lee, H.S. Choi), (408) 193

Trimethylphosphine-substituted η^2-thiocarbene complexes of tungsten, preparation and reactions of (W. Schütt, N. Ullrich, F.R. Kreißl), (408) C5

Uranium

$[(Me_3SiC_5H_4)_3U]_2[\mu\text{-}O]$ oxo-bridged bimetallic organouranium complex, synthesis and crystal structure of (J.-C. Berthet, J.-F. Le Maréchal, M. Nierlich, M. Lance, J. Vigner, M. Ephritikhine), (408) 335

Vanadium

$Cp_2VCl(AsF_6)$ and other vanadocene(IV) hexafluoropnicogenate species, synthesis and EPR spectroscopic characterisation of; HF-catalysed oxidation to cationic vanadocenium(V) complexes; structure of $[Cp_2VCl_2]^+[AsF_6]^-$ (F.H. Görlitz, P.K. Gowik, T.M. Klapötke, D. Wang, R. Meier, J. v. Welzen), (408) 343

Ytterbium

Metal-bridging versus chelating $Me_2Si(C_5H_4)_2$-ligands in binuclear complexes; crystal structures of non-sublimed $[Me_2Si(C_5H_4)_2Yb(\mu\text{-}Br)]_2$ and $[(C_5H_5)_2Yb(\mu\text{-}Cl)]_2$ (T. Akhnoukh, J. Müller, K. Qiao, X.-F. Li, R.D. Fischer), (408) 47

$(Ph_3Sn)_2Yb(THF)_4$, a compound with an ytterbium–tin bond; synthesis and structure of (M.N. Bochkarev, V.V. Khramenkov, Yu.F. Rad'kov, L.N. Zakharov, Yu.T. Struchkov), (408) 329

Book reviews

Directory of graduate research 1989 (C. Eaborn), (408) C22

Gmelin handbook of inorganic chemistry, 8th edition, organotitanium compounds, part 5 (G.J. Leigh), (408) C22